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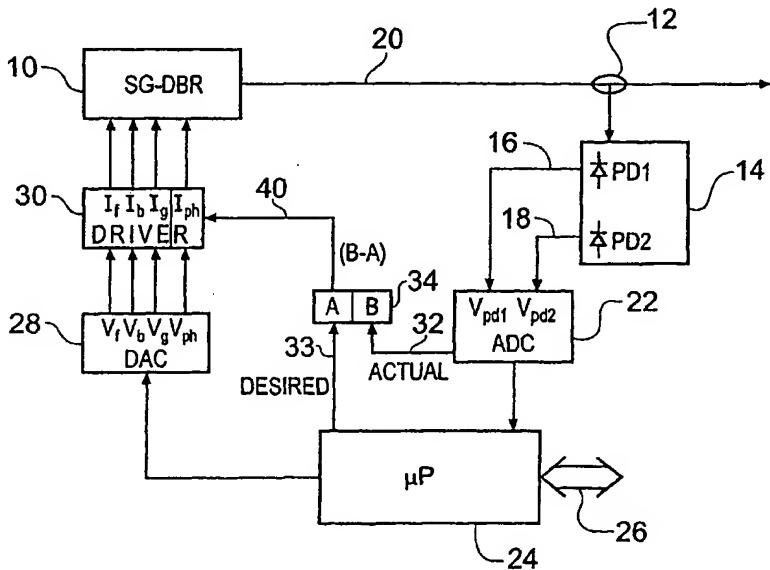
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(54) Title: FREQUENCY SETTING OF A MULTISECTION LASER DIODE TAKING INTO ACCOUNT THERMAL EFFECTS



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(57) Abstract: A system in which the controller (24) of a multisection diode laser such as a SG-DBR (10) is configured so that the laser can be swept rapidly in a pre-determined frequency direction through a series of frequency points by asserting a pre-calibrated series of sets of control input values to the sections of the diode laser, wherein the frequency points are obtained from cavity modes in a plurality of different supermodes, and the sets of control input values are pre-determined to take account of thermal transients that are known to arise from jumps in the output modes that occur when sweeping through the pre-calibrated series of sets of control input values in the pre-determined frequency direction.